

# NEW!

## Solid State DISPLACEMENT RECORDER

Model DR-1

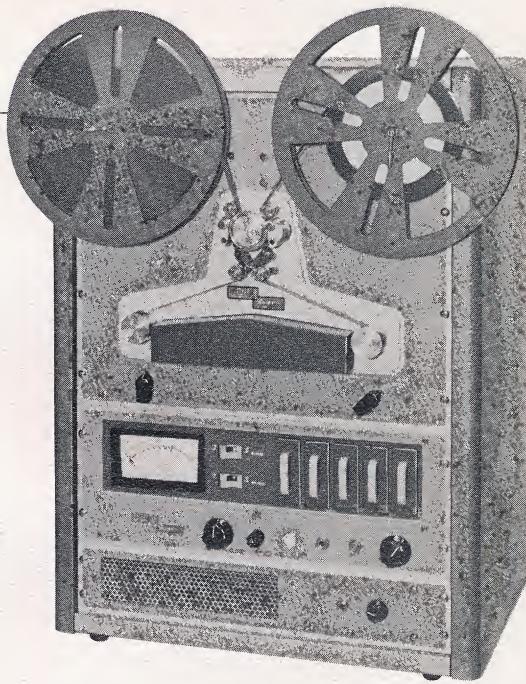
*makes single-system editing possible*

The Magnasync Model DR-1 Displacement Recorder automatically re-positions the sound track of a processed 16mm single-system release print film to "editor's sync" . . . sound and corresponding picture "in line" . . . for rapid, accurate editing, and then automatically re-positions sound track to "printer's sync" or "projection sync" for immediate projection, most often required by TV and Documentary producers.

Use of the DR-1 eliminates equipment associated with conventional, cumbersome, inaccurate double-system transfer of 100 mil original magnetic sound track to a second 16mm magnetic sound track. One Displacement Recorder and viewer equipped with magnetic head are the only equipments required. "In line" editing eliminates "flip-flap" . . . unwanted or unassociated picture sound.

The unit may be interlocked with other magnetic film recording equipment and projectors including conventional TV chain projectors. An audio input is provided to permit addition of sound to unrecorded release print film, and a playback audio output is provided for projection tracks.

The DR-1 circuitry is modular plug-in solid state. Monitor speaker, headphone output and automatic switching are provided.



### SPECIFICATIONS

**Film Type, Tracking:** 16mm 100 mil magnetic stripe motion picture film.

**Film Capacity:** Standard 1200-foot reels.

**Take-up and Rewind:** Two torque motors for high speed rewind from reel to reel or synchronous reverse through sprocket drive.

**Footage Counter:** Directly coupled to film drive sprocket for accuracy; adds forward, subtracts reverse. Reset type.

**Drive Motor:** Salient pole synchronous. Standard unit furnished with 115-volt, 60-cycle, single phase, 24 fps drive motor. Drive Motors for other voltages, cycles and phases available.

**Frequency Response:** 50-10,000 cps,  $\pm 2$  db at 36 fpm.

**Distortion:** Less than 2% total harmonic.

**Signal-to-noise Ratio:** 50 db.

**Flutter and Wow:** 0.3% maximum rms at 36 fpm.

**Auxiliary Record Input:** 10,000-ohm bridging unbalanced, -15 db to +20 db level.

**Outputs:** 600-ohm balanced or unbalanced, +20 db maximum. Safe-print output jack on rear of chassis, approximately 0 db unbalanced.

**Monitor:** 4 1/2 inch V.U. Meter with switch to select Record, Playback or Bias Monitoring from the front panel. Headphone monitor jack on the front panel for phones above 600 ohms.

**Power Consumption:** Amplifier — 10 watts maximum. Transport — 125 watts maximum at 115 volts, 60 cycles.

DEALER:

## MAGNASYNC

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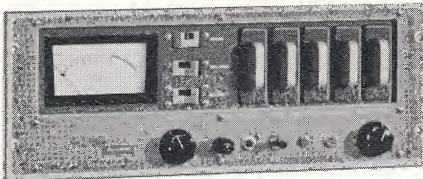
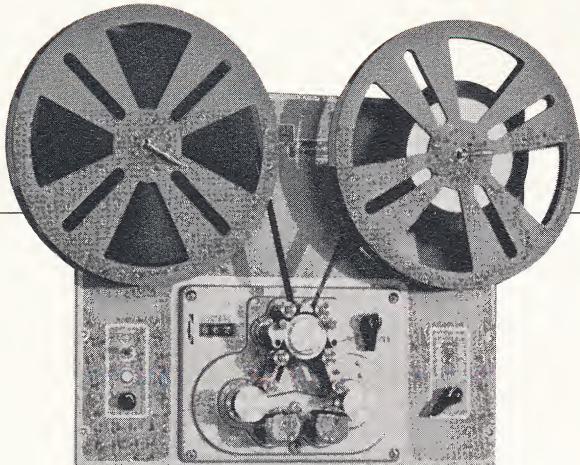
*A subsidiary of Monogram Industries, Inc.*  
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Phone: (213) 877-1591



• Cable "MAGNASYNC"



*International leaders, for over a decade, in the design and manufacture of quality magnetic recording devices*



# NEW!

## Solid State STUDIO RECORDER

Series 2100

16mm, 17.5mm or 35mm synchronous magnetic film

The new Series 2100 Studio Recorder is a unique combination of the latest solid state technology and the unparalleled ruggedness and reliability of the time-proven world-famous Magnasync Type 5 transport mechanism. It is available with all standard film speeds and voltages for complete international compatibility.

This recorder is available for 16mm, 17.5mm or 35mm synchronous magnetic film.

The modular design flexibility of the Series 2100 permits combination with other existing units such as Magnasync's tube type equipment, and virtually all other tube equipment on the market . . . thus allowing users of tube equipment to gradually acquire a complete Series 2100 Solid State System at a minimum amount of immediate cost.

Uncompromising performance and contemporary, functional design have been united to produce a truly elegant "work-horse" for any producer!

### SPECIFICATIONS

#### STUDIO RECORDER

**Frequency Response:** 50 to 10,000 cps  $\pm 2$  db at 36 or 45 fpm. 50 to 13,000 cps  $\pm 2$  db at 90 fpm.

**Distortion:** Less than 2% total harmonic.

**Signal-to-noise Ratio:** 58 db.

**Inputs:** Line input 600 ohms balanced or unbalanced, or unbalanced 10,000-ohm bridging input.

**Outputs:** Line output 600/150 ohms balanced or unbalanced, +20 dbm. maximum level. A FILM-DIRECT switch connects the output to the recorder input or film playback as required.

**Monitor:** Large 4½" V.U. meter monitors the input signal or bias level during recording or the film output during playback. A front panel headphone jack provides aural monitoring of the recorder input or output as selected by the FILM-DIRECT switch.

**Dialogue Equalization:** Switch for normal or high-pass filter with bass roll-off below 300 cps. Response of -10 db at 100 cps.

**Power Consumption:** 10 watts at 115 volts, 60-cycle single-phase.

**Size:** Standard 7" x 19" relay rack mounting. Depth behind panel is 8" excluding cable connectors.

**Weight:** Approximately 24 lbs.

#### MONITOR AMPLIFIER

##### Amplifier Characteristics:

Frequency Response: 50 to 15,000 cps  $\pm 1$  db.

Distortion: Less than 2% total harmonic.

Power Output: 3 watts into 8 ohms.

Input Level: 0.5 volt into 10,000 ohms.

**Gain Control:** Continuously variable from zero to maximum output.

**Speaker:** Panel mounted 2½" x 10" oval.

**Power Requirements:** 24 - 28 volts DC at .30 amps. maximum. NOTE: When used with Magnasync Solid State Recorders, power is available from a plug in the recorder chassis.

**Size:** Standard 3½" x 19" relay rack mounting. Depth behind panel is 2½" maximum.

DEALER:

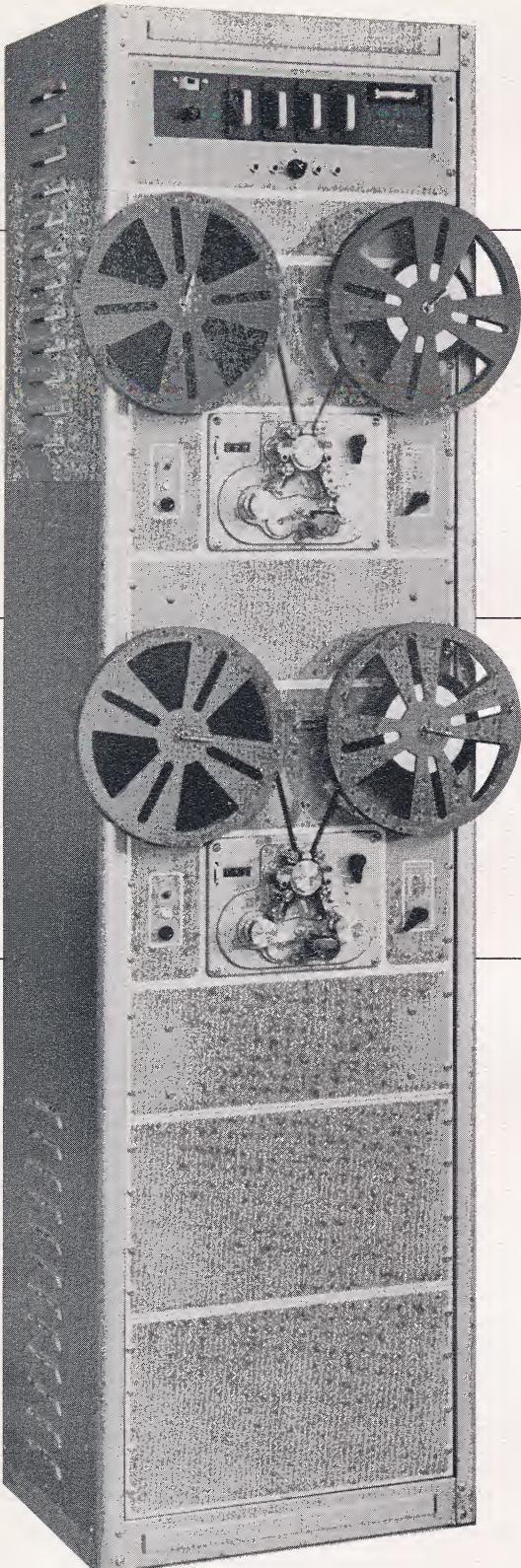
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# NEW!

## Solid State REPRODUCER

Series 2100

*16mm, 17.5mm or 35mm synchronous magnetic film*

The Series 2100 Reproducers are comprised of the same basic mechanism and solid state electronics as the Magnasync Studio Recorder. Modular "building-block" design enables producer to expand his system from one channel to four, simply by means of plug-in modules.

Systems are available with electrical or mechanical interlock; edge, center or standard ASA tracking.

All reproducers are equipped ready-to-go in rack cabinet and system-tested at factory.

### SPECIFICATIONS

**Number of Channels:** Optional — One, two, three or four by means of plug-in modules.

**Mechanical Specifications:** Standard 7" x 19" rack panel.  
Chassis size (less connectors), 17" wide, 8" deep;  
Weight, approx. 25 lbs.

**Electrical Specifications:**

Frequency Response:  
50 to 10,000 cps  $\pm 2$  db at 36 or 45 fpm.  
50 to 13,000 cps  $\pm 2$  db at 90 fpm.

**Frequency Response Characteristics:** SMPTE or as specified with order.

**Distortion:** Less than 2% total harmonic.

**Signal-to-noise Ratio:** 58 db.

**Output:** Standard 600-ohm balanced line +20 dbm. max.  
Output level of each channel adjustable on the front panel.

**Output Metering:** VU Meter monitoring of each channel by front panel selector switch.

**Power Consumption:** 10 watts maximum at 115 volts, 60 cps.

DEALER:

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